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1 **Intelligent simulation environment for electronics remanufacturing
systems**
Fidan, I.; Roush, E.M.; Tumkor, S.; Kraft, R.P.;
Electronics Manufacturing Technology Symposium, 2004. IEEE/CPMT/SEMI 29th
International , July 14-16, 2004
Pages:160 - 164

[Abstract]   [PDF Full-Text (599 KB)]   **IEEE CNF**

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2 **Intelligent control of via formation process in MCM-L/D substrates using
neural networks**
Kim, T.S.; May, G.S.;
Advanced Packaging Materials: Processes, Properties and Interfaces, 1999.
Proceedings. International Symposium on , 14-17 March 1999
Pages:106 - 112

[Abstract]   [PDF Full-Text (652 KB)]   **IEEE CNF**

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3 **Underwater environment restitution through sonar images and swath
bathymetry rendering**
Daniel, S.; Gueriot, D.; Maillard, E.P.;
Systems, Man, and Cybernetics, 1998. 1998 IEEE International Conference
on , Volume: 5 , 11-14 Oct. 1998
Pages:4417 - 4422 vol.5

[Abstract]   [PDF Full-Text (716 KB)]   **IEEE CNF**

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4 **Fuzzy scheduling problem in self-organizing manufacturing system**
Kubota, N.; Fukuda, T.; Kojima, F.;
Knowledge-Based Intelligent Electronic Systems, 1998. Proceedings KES '98. 1998
Second International Conference on , Volume: 2 , 21-23 April 1998
Pages:116 - 125 vol.2

[Abstract]   [PDF Full-Text (736 KB)]   **IEEE CNF**

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5 On-line process optimization and control using the sequential design of experiments
Sachs, E.; Guo, R.-S.; Ha, S.; Hu, A.;
VLSI Technology, 1990. Digest of Technical Papers.1990 Symposium on , 4-7 June 1990
Pages:99 - 100

[Abstract]   [PDF Full-Text (184 KB)]   **IEEE CNF**

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1 Magic Functions: In Memoriam: Bernard M. Dwork 1923--1998
Cynthia Dwork, Moni Naor, Omer Reingold, Larry Stockmeyer
November 2003 **Journal of the ACM (JACM)**, Volume 50 Issue 6

Full text available: 📄 pdf(708.05 KB)   Additional Information: full citation, abstract, references, index terms

We prove that three apparently unrelated fundamental problems in distributed computing, cryptography, and
are essentially the same problem. These three problems and brief descriptions of them follow. (1) *The selectiv
problem.* An adversary is given commitments to a collection of messages, and the adversary can ask for some
commitments to be opened. The question is whether seeing the decommitments to these open plaintexts allo
t ...

Keywords: Digital signature, Fiat-Shamir methodology, interactive argument, interactive proof system, mag
selective decommitment, zero knowledge

2 The minimum consistent DFA problem cannot be approximated within any polynomial
Leonard Pitt, Manfred K. Warmuth
January 1993 **Journal of the ACM (JACM)**, Volume 40 Issue 1

Full text available: 📄 pdf(3.44 MB)   Additional Information: full citation, abstract, references, citings, index terms

The minimum consistent DFA problem is that of finding a DFA with as few states as possible that is consistent
sample (a finite collection of words, each labeled as to whether the DFA found should accept or reject). Assum
is shown that for any constant k, no polynomial-time algorithm can be guaranteed to find a consistent DFA wi
states, wher ...

Keywords: approximation algorithms, minimization of finite state machines, nonapproximability

3 Query evaluation techniques for large databases
Goetz Graefe
June 1993   **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: 📄 pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, rev

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for ac
manipulating large sets and sequences will be required to provide acceptable performance. The advent of obje
extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the
to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple reco
processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, i

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oriented database systems, operator model of parallelization, parallel algorithms, relational database systems algorithms, sort-hash duality

4 Computing on an anonymous ring

Hagit Attiya, Marc Snir, Manfred K. Warmuth
October 1988 **Journal of the ACM (JACM)**, Volume 35 Issue 4

Full text available: pdf(2.27 MB)   Additional Information: full citation, abstract, references, citings, index terms

The computational capabilities of a system of n indistinguishable (anonymous) processors arranged on a ring and asynchronous models of distributed computation are analyzed. A precise characterization of the functions computed in this setting is given. It is shown that any of these functions can be computed in O(n2) messages asynchronous model. This is also proved to be a lower bound ...

5 Early stopping in Byzantine agreement

Danny Dolev, Ruediger Reischuk, H. Raymond Strong
October 1990 **Journal of the ACM (JACM)**, Volume 37 Issue 4

Full text available: pdf(1.91 MB)   Additional Information: full citation, abstract, references, citings, index terms, rev

Two different kinds of Byzantine Agreement for distributed systems with processor faults are defined and com required when coordinated actions may be performed by each participant at different times. This kind is called Byzantine Agreement (SBA). This paper deals with the number of rounds of message exchange required to re Agreement of either kind (BA). If an algorithm allows its participants to reach Byzantine agreement in every e

6 Status report of the graphic standards planning committee

Computer Graphics staff
August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Full text available: pdf(15.01 MB)   Additional Information: full citation, references, citings

7 Secure and selective dissemination of XML documents

Elisa Bertino, Elena Ferrari
August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

Full text available: pdf(678.34 KB)   Additional Information: full citation, abstract, references, citings, index terms

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and ex Web. It is often the case that XML documents contain information of different sensitivity degrees that must be by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specifi enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure an dissemina ...

Keywords: Access control, XML, secure distribution

8 Five paradigm shifts in programming language design and their realization in Viron, a dataflow program environment

Vaughan Pratt
January 1983 **Proceedings of the 10th ACM SIGACT-SIGPLAN symposium on Principles of programmin**

Full text available: pdf(1.14 MB)   Additional Information: full citation, abstract, references, citings

We describe five paradigm shifts in programming language design, some old and some relatively new, namely Serial to Parallel, Partition Types to Predicate Types, Computable to Definable, and Syntactic Consistency to S Consistency. We argue for the adoption of each. We exhibit a programming language, Viron, that capitalizes o

9 Complexity of finite-horizon Markov decision process problems

Martin Mundhenk, Judy Goldsmith, Christopher Lusena, Eric Allender
July 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 4

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Full text available: pdf(461.61 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Controlled stochastic systems occur in science engineering, manufacturing, social sciences, and many other c systems is modeled as a Markov decision process (MDP) and will run ad infinitum, the optimal control policy c polynomial time using linear programming. The problems considered here assume that the time that the proc finite, and based on the size of the input. There are mny factors that compound the complexity of computin ..

Keywords: Markov decision processes, NP, NPPP, PL, PSPACE, computational complexity, partially observabl processes, succinct representations

10 The validity of retiming sequential circuits

Vigyan Singhal, Carl Pixley, Richard L. Rudell, Robert K. Brayton
January 1995 **Proceedings of the 32nd ACM/IEEE conference on Design automation**

Full text available: pdf(155.21 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

11 The iSLIP scheduling algorithm for input-queued switches

Nick McKeown
April 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 2

Full text available: pdf(282.39 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: ATM switch, IP router, crossbar switch, input-queueing, scheduling

12 High-speed switch scheduling for local-area networks

Thomas E. Anderson, Susan S. Owicki, James B. Saxe, Charles P. Thacker
November 1993 **ACM Transactions on Computer Systems (TOCS)**, Volume 11 Issue 4

Full text available: pdf(2.37 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Current technology trends make it possible to build communication networks that can support high-performan computing. This paper describes issues in the design of a prototype switch for an arbitrary topology point-to-p link speeds of up to 1 Gbit/s. The switch deals in fixed-length ATM-style cells, which it can process at a rate o per second. It provides high bandwidth and low latency for datagram traffic. In addition, it supports real-time

Keywords: ATM networks, iterative matching, statistical matching, switching scheduling

13 Analysis of the parallel packet switch architecture

Sundar Iyer, Nick W. McKeown
April 2003   **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 2

Full text available: pdf(619.44 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Our work is motivated by the desire to design packet switches with large aggregate capacity and fast line rate we consider building a packet switch from multiple lower speed packet switches operating independently and particular, we consider a (perhaps obvious) parallel packet switch (PPS) architecture in which arriving traffic i over*k* identical lower speed packet switches, switched to the correct output port, then recombined (multiplexe

Keywords: Clos network, inverse multiplexing, load balancing, output queueing, packet switch

14 A hierarchical access control model for video database systems

Elisa Bertino, Jianping Fan, Elena Ferrari, Mohand-Said Hacid, Ahmed K. Elmagarmid, Xingquan Zhu
April 2003   **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 2

Full text available: pdf(6.27 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Content-based video database access control is becoming very important, but it depends on the progresses o

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related research issues: (a) efficient video analysis for supporting semantic visual concept representation; (b) database indexing structure; (c) the development of suitable video database models; and (d) the developmen models tailored to the characteristics of video data. In this paper, we propose a novel approach to support mu

Keywords: Video database models, access control, indexing schemes

15 A complete problem for statistical zero knowledge

Amit Sahai, Salil Vadhan
March 2003   **Journal of the ACM (JACM)**, Volume 50 Issue 2

Full text available: pdf(397.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present the first complete problem for SZK, the class of promise problems possessing statistical zero-know (against an honest verifier). The problem, called Statistical Difference, is to decide whether two efficiently sam distributions are either statistically close or far apart. This gives a new characterization of SZK that makes *no interaction or zero knowledge*.We propose the use of complete problems to unify and extend the study of stat

Keywords: Knowledge complexity, proof systems, statistical difference, zero knowledge

16 Session 6: Sequential composition of protocols without simultaneous termination

Yehuda Lindell, Anna Lysyanskaya, Tal Rabin
July 2002   **Proceedings of the twenty-first annual symposium on Principles of distributed computin**

Full text available: pdf(1.07 MB)   Additional Information: full citation, abstract, references

The question of the composition of protocols is an important and heavily researched one. In this paper we con of sequential composition of synchronous protocols that do not have simultaneous termination; i.e., the partie necessarily conclude a protocol execution in the same round. A problem arises because such protocols must synchrony; therefore a second execution cannot follow from the first in a straightforward manner. An importa protocol with ...

17 Session 8B: On the composition of authenticated byzantine agreement

Yehuda Lindell, Anna Lysyanskaya, Tal Rabin
May 2002   **Proceedings of the thiry-fourth annual ACM symposium on Theory of computing**

Full text available: pdf(289.09 KB)   Additional Information: full citation, abstract, references, citings, index terms

A fundamental problem of distributed computing is that of simulating a (secure) broadcast channel, within the to-point network. This problem is known as Byzantine Agreement and has been the focus of much research. L showed that in order to achieve Byzantine Agreement in the standard model, more than 2/3 of the participati honest. They further showed that by augmenting the network with a public-key infrastructure, it is possible to

18 Structural analysis of protocol specifications and generation of maximal fault coverage conformance te

Raymond E. Miller, Sanjoy Paul
October 1994   **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 5

Full text available: pdf(1.55 MB)   Additional Information: full citation, references, citings, index terms, review

19 Optimal VLSI circuits for sorting

Richard Cole, Alan Siegel
October 1988   **Journal of the ACM (JACM)**, Volume 35 Issue 4

Full text available: pdf(2.81 MB)   Additional Information: full citation, abstract, references, citings, index terms

This work describes a large number of constructions for sorting N integers in the range [0, M - 1], for $N \leq M$ standard VLSI bit model. Among other results, we attain: VLSI sorter constructions that are within a constant size, for all M and almost all running times T. a ...

20 Design and analysis of a large-scale multicast output buffered ATM switch

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H. Jonathan Chao, Byeong-Seog Choe
April 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 2
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21 Tight bounds on the size of fault-tolerant merging and sorting networks with destructive faults
Tom Leighton, Yuan Ma
August 1993 **Proceedings of the fifth annual ACM symposium on Parallel algorithms and architectures**
Full text available: pdf(1.09 MB)   Additional Information: full citation, references, citings, index terms

22 A module level simulation technique for systems composed of LSI's and MSI's
Mario Tokoro, Masayuki Sato, Masayuki Ishigami, Eiji Tamura, Terunobu Ishimitsu, Hisashi Ohara
June 1978   **Proceedings of the 15th conference on Design automation**
Full text available: pdf(749.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes newly developed techniques suitable for logic verification and fault simulation of digital s
mainly composed of LSI's and MSI's. A simulator employing such techniques has been implemented, and has
advantages over existing simulators.

23 Software and hardware techniques for performance optimisation of embedded applications: Optimizing
bandwidth with loop fusion
Paul Marchal, José Ignacio Gómez, Francky Catthoor
September 2004 **Proceedings of the 2nd IEEE/ACM/IFIP international conference on Hardware/softwa
system synthesis**
Full text available: pdf(191.36 KB)   Additional Information: full citation, abstract, references, index terms

The memory bandwidth largely determines the performance and energy cost of embedded systems. At the co
several techniques improve the memory bandwidth at the scope of a basic block, but often fail to exploit all. W
technique to optimize the memory bandwidth across the boundaries of a basic block. Our technique incremen
better use the available bandwidth. The resulting performance depends on how the data is assigned to the me
memory layer. ...

Keywords: loop fusion, low power, memory bandwidth

24 Concentrator modeling with pipelining arrivals compensation
Patrick V. McGregor
April 1982   **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the Computer Netwo
Symposium, Volume 11 Issue 1**
Full text available: pdf(1.27 MB)   Additional Information: full citation, abstract, references, index terms

A general model of Intelligent Communications Concentrating Devices (ICCD) is presented and analyzed for d
performance with compensation for the pipelining effect of message arrivals extending over time. The results

indicate that, for the same trunk utilization, the trend towards buffered terminals with longer messages requir greater buffering in the ICCD. The nominal environment analyzed consisted of 10-40 medium speed terminals

25 Partial reconfigurable architectures: Real-time LUT-based network topologies for dynamic and partial F reconfiguration

Michael Huebner, Tobias Becker, Juergen Becker
September 2004 **Proceedings of the 17th symposium on Integrated circuits and system design**

Full text available: 🔲 pdf(356.70 KB)   Additional Information: full citation, abstract, references, index terms

Xilinx Virtex FPGAs offer the possibility of dynamic and partial run-time reconfiguration. If a system uses this designer has to take care, that no signal lines cross the border to other reconfigurable regions. Traditional sol modules on a dynamic and partial reconfigurable system use TBUF elements for connection and separation of blocks. While automalically placing and routing the design, the routing-tool sometimes uses signal lines which

Keywords: dynamic partial reconfiguration, virtex

26 High speed switch scheduling for local area networks

Thomas E. Anderson, Susan S. Owicki, James B. Saxe, Charles P. Thacker
September 1992 **ACM SIGPLAN Notices , Proceedings of the fifth international conference on Architectu programming languages and operating systems**, Volume 27 Issue 9

Full text available: 🔲 pdf(1.25 MB)   Additional Information: full citation, references, citings, index terms

27 Session 8A: Non-interactive and reusable non-malleable commitment schemes

Ivan Damgard, Jens Groth
June 2003   **Proceedings of the thirty-fifth annual ACM symposium on Theory of computing**

Full text available: 🔲 pdf(333.10 KB)   Additional Information: full citation, abstract, references, index terms

We consider non-malleable (NM) and universally composable (UC) commitment schemes in the common refer model. We show how to construct non-interactive NM commitments that remain non-malleable even if the ad to an arbitrary number of commitments from honest players - rather than one, as in several previous scheme a strictly stronger security notion. Our construction is the first non-interactive scheme achieving this that can mini ...

Keywords: commitment, non-malleability, one-way function, signature, universal composability

28 Perfectly one-way probabilistic hash functions (preliminary version)

Ran Canetti, Daniele Micciancio, Omer Reingold
May 1998 **Proceedings of the thirtieth annual ACM symposium on Theory of computing**

Full text available: 🔲 pdf(1.37 MB)   Additional Information: full citation, references, citings, index terms

29 Survey of software tools for evaluating reliability, availability, and serviceability

Allen M. Johnson, Miroslaw Malek
September 1988 **ACM Computing Surveys (CSUR)**, Volume 20 Issue 4

Full text available: 🔲 pdf(3.79 MB)   Additional Information: full citation, abstract, references, citings, index terms

In computer design, it is essential to know the effectiveness of different design options in improving performa dependability. Various software tools have been created to evaluate these parameters, applying both analytic techniques, and this paper reviews those related primarily to reliability, availability, and serviceability. The pu models used, type of systems modeled, inputs, and outputs are given for each package. Examples of some of modeling ...

30 Fowarding: Scaling internet routers using optics

Isaac Keslassy, Shang-Tse Chuang, Kyoungsik Yu, David Miller, Mark Horowitz, Olav Solgaard, Nick McKeown

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August 2003   **Proceedings of the 2003 conference on Applications, technologies, architectures, and pr computer communications**

Full text available: 📄 pdf(253.06 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Routers built around a single-stage crossbar and a centralized scheduler do not scale, and (in practice) do not throughput guarantees that network operators need to make efficient use of their expensive long-haul links. I consider how optics can be used to scale capacity and reduce power in a router. We start with the promising l switch architecture proposed by C-S. Chang. This approach eliminates the scheduler, is scalable, and guarant throughput f ...

Keywords: internet router, load-balancing, packet-switch

31 OOPSLA onward! track: Acceptability-oriented computing

Martin Rinard
December 2003 **ACM SIGPLAN Notices**, Volume 38 Issue 12

Full text available: 📄 pdf(446.05 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We discuss a new approach to the construction of software systems. Instead of attempting to build a system errors as possible, the designer instead identifies key properties that the execution must satisfy to be accepta Together, these properties define the *acceptability envelope* of the system: the region that it must stay within acceptable. The developer then augments the system with a layered set of components, each of which enforc

Keywords: acceptability properties, monitoring, rectification, repair

32 Onward papers: Acceptability-oriented computing

Martin Rinard
October 2003   **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programmi languages, and applications**

Full text available: 📄 pdf(321.06 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We discuss a new approach to the construction of software systems. Instead of attempting to build a system errors as possible, the designer instead identifies key properties that the execution must satisfy to be accepta Together, these properties define the *acceptability envelope* of the system: the region that it must stay within acceptable. The developer then augments the system with a layered set of components, each of which enforc

Keywords: acceptability properties, monitoring, rectification, repair

33 State assignment using input/output functions

I. Pomeranz, K.-T. Cheng
July 1992 **Proceedings of the 29th ACM/IEEE conference on Design automation**

Full text available: 📄 pdf(577.18 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

34 Distributed scheduling policies in networks of input-queued packet switches

Claus Bauer
July 2004   **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 3

Full text available: 📄 pdf(340.28 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Scheduling algorithms for input-queued packet switches have been widely researched. It has been shown tha scheduling algorithms provide guarantees on stability and on average delay for single switches. However, rec demonstrated that most of these scheduling algorithms do not guarantee stability for networks of switches.

Most of the research that treats networks of switches proposes switching policies that require coordination am switche ...

35 High level and architectural synthesis: Round-robin arbiter design and generation

Eung S. Shin, Vincent J. Mooney, George F. Riley

October 2002 **Proceedings of the 15th international symposium on System Synthesis**

Full text available: pdf(232.92 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we introduce a Round-robin Arbiter Generator (RAG) tool. The RAG tool can generate a design f (BA). The BA is able to handle the exact number of bus masters for both on-chip and off-chip buses. RAG can distributed and parallel hierarchical Switch Arbiter (SA). The first contribution of this paper is the automated g round-robin token passing BA to reduce time spent on arbiter design. The generated arbiter is fair, fast, and h

Keywords: arbiter, distributed arbiter, round-robin token passing, synthesis, terabit switch

36 Group Key Management and Signatures: Provably authenticated group Diffie-Hellman key exchange

Emmanuel Bresson, Olivier Chevassut, David Pointcheval, Jean-Jacques Quisquater

November 2001 **Proceedings of the 8th ACM conference on Computer and Communications Security**

Full text available: pdf(578.14 KB)   Additional Information: full citation, abstract, references, citings, index terms

Group Diffie-Hellman protocols for Authenticated Key Exchange (AKE) are designed to provide a pool of playe secret key which may later be used, for example, to achieve multicast message integrity. Over the years, sev been offered. However, no formal treatment for this cryptographic problem has ever been suggested. In this a security model for this problem and use it to precisely define AKE (with "implicit" authentication) as the fun

37 Checking equivalence for partial implementations

Christoph Scholl, Bernd Becker

June 2001 **Proceedings of the 38th conference on Design automation**

Full text available: pdf(113.75 KB)   Additional Information: full citation, abstract, references, index terms

We consider the problem of checking whether a partial implementation can (still) be extended to a complete d equivalent to a given full specification.Several algorithms trading off accuracy and computational resources ar Starting with a simple 0,1,&KHarX-based simulation, which allows approximate solutions, but is not able to fin partial implementation, we consider more and more exact methods finally covering all errors detectable in ...

38 An analysis model on nonblocking multirate broadcast networks

Yuanyuan Yang

July 1994 **Proceedings of the 8th international conference on Supercomputing**

Full text available: pdf(851.24 KB)   Additional Information: full citation, abstract, references, index terms, review

Designing efficient interconnection networks with powerful connecting capability remains a key issue to parall computing systems. Many progresses have been made in nonblocking broadcast networks which can realize a connections between any network input port and a set of output ports without any disturbance (that is, rearra existing connections. However, all results obtained so far for broadcast networks are f ...

Keywords: broadcast, interconnection networks, multirate traffic, nonblocking, packet switching

39 SCOQ: a fast packet switch with shared concentration and output queueing

David X. Chen, Jon W. Mark

February 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 1

Full text available: pdf(954.36 KB)   Additional Information: full citation, references, citings, index terms

40 Toward a real-time Ada design methodology

Norman R. Howes

December 1990 **Proceedings of the conference on TRI-ADA '90**

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